Adult Protocols:	
S-100 Introduction	Added: referenced P-104 next to "Skills List" (#1) Change: w/s changed to "joules" Reference page updated
S-101 Glossary of Terms	Deleted: "fluids are routinely Normal Saline" under IV/IO. Weight criteria under "Pediatric Patient". Sinus Pause definition Unconsciousness definition Added: "immediate or anticipated immediate need for" added to Definitive Therapy. Added: "respiratory rate of less than 12" added to Opioid Overdose, Symptomatic. Added: "Pediatric trauma patient is determined by age, regardless of weight." Added: delayed capillary refill under "Shock" in the patient <15 years. This section reformatted to define shock in the patient <15 as someone exhibiting any one of the signs of inadequate perfusion.
S-102 Abbreviation List	Added: AEMT: Advanced EMT AHA: American Heart Association LT Airway: Laryngeal Tracheal Airway MTV: Major Trauma Victim PAA: Perilaryngeal airway adjunct

P-104 ALS Skills	See end of list for ALS Skill changes
ALL	O2 Saturation prn moved from ALS to BLS
S-120 Abdominal Pain	ALS: Added: MR x1 q 10" Zofran 4mg IV/IM/ODT for nausea/vomiting SO Added: 500 ml fluid bolus IV/IO for suspected volume depletion SO. BP criteria deleted.
	Added: "Titrate to BP 80" to note regarding suspected intra- abdominal catastrophe or suspected aortic aneurysm.
S-121 Airway Obstruction	BLS: Added: For inadequate air exchange: airway maneuvers (AHA). Abdominal thrusts. Use chest thrusts in the obese or pregnant patient.
S-122 Allergic Reaction/Anaphylaxis	ALS: Reformatted. Treatment divided by "Mild" "Acute" "Anaphylaxis". Added: Atrovent to first dose of Albuterol in Acute and Anaphylaxis.
S-123 Altered Neurologic Function	BLS: Change: Value changed from 75mg/dL to 60mg/dL. "Hypoglycemia (suspected) or patient's glucometer results read <60mg/dL." ALS: Change: Treatment of hypoglycemia value changed from 75mg/dL to 60mg/dL.

S-123 Altered Neurologic Function (continued)	Change: Narcan - combined the two sections: Symptomatic OD & Symptomatic OD in opioid dependent pain management patients, by adding the note "use caution in opioid dependent pain management patients". Criteria (RR<12) and dosing unchanged (titrate to effect up to 2mg) Change: administer O2 for O2 saturation <94% (was 92%). Moved to BLS section. Deleted: 10 minutes between first and second dose of Versed in seizure. Added: clarification note regarding seizure time: greater than 5 minutes "includes seizure time prior to arrival of prehospital provider".
S-124 Burns	O2 Saturation prn moved from ALS to BLS
S-126 Discomfort/Pain of Suspected Cardiac Origin	Added: Note – Report poor quality EKG, artifact, BBB, paced rhythm, atrial fibrillation or atrial flutter for exclusion from STEMI determination. Added: Note - If the 12 Lead is of poor quality may re-attempt to a total of three. Do not delay transport to repeat. Repeat the 12-lead ECG only if the original ECG interpretation is NOT ***ACUTE MI SUSPECTED***, and patient's condition worsens. Deleted: "if NTG x 3 ineffective or contraindicated" – (do not need to give three NTG prior to MS administration.)

S-127 Dysrhythmias	ALS: Deleted: note stating "treat dysrhythmias if they have the potential to or are causing symptoms of decreased cardiac output."
	Change: external cardiac pacing from BHPO to SO. (Morphine and Versed SO).
	Added: "a minimum of" 1 mg Atropine under narrow complex bradycardia prior to pacing.
	<u>Change</u> : in all appropriate sections deleted numeric joule setting and replaced with "at manufacturer's recommended energy dose".
	Added: Amiodarone for ventricular tachycardia (SO) and post-conversion (BHO).
	Deleted: "sinus pause" and replaced with "if no sustained rhythm change."
	Added: Note – "if return of pulses transport to STEMI Receiving Center." (Applies ONLY to ROSC patient if initially pulseless VT/VF.)
	Deleted: Atropine and NaHCO3 deleted from PEA protocol.
S-129 Envenomation Injuries	BLS: <a "liberally="" 30="" a="" alcohol="" alcohol"="" at="" available,="" for="" href="Mailto:Change: Jellyfish sting changed from " if="" least="" or="" rinse="" salt="" seconds."<="" to="" vinegar,="" water="" with="">
	Added: Consider heat as tolerated (not to exceed 110 degrees). Use warm water if available, not to exceed 110 degrees.
S-130 Environmental Exposure	ALS: Added: ?Heat Exhaustion - 500ml fluid bolus IV/IO SO, if clear lungs.

S-131 Hemodialysis	ALS: Added: "Immediate" to the statement regarding intravenous access. Requires immediate critical need for administration and no other route available (e.g. IN/IM/PO).
S-132 Near Drowning/Diving	ALS: Added: CPAP at 5-10cm H2O SO
S-133 Obstetrical Emergencies	BLS: Deleted: "spinal immobilization when indicated" under Eclampsia. ALS: Deleted: 10 minutes between first and second dose of Versed in seizure.
S-134 Poisoning/Overdose	ALS: Change: Narcan - combined the two sections: Symptomatic OD & Symptomatic OD in opioid dependent pain management patients, by adding the note "use caution in opioid dependent pain management patients". Criteria (RR<12) and dosing unchanged (titrate to effect up to 2mg) Added: to Charcoal administration, "if ingestion within 60 minutes and recommended by Poison Center." Change: NaHCO3 in Tricyclic OD to SO from BHO Added: May administer Soduim Thiosulfate 25% IV & Amyl Nitrite per inhalation or Hydroxocobalamin (Cyanokit) if cyanide kit available on site (e.g. industrial accident). Deleted: 10 minutes between first and second dose of Versed for severe agitation.

S-135 Pre existing Medical Intervention	BLS: Deleted: "check for prior IV, IM, SC, and non-routine PO medication delivery to assure minimum wait period of 30"" ALS: Change: "remove dermal NTG when indicated SO" & "remove other dermal medications BHO" changed to "Remove dermal medications when indicated (CPR, shock) SO".
S-136 Respiratory Distress	ALS: Deleted: "If available" on EtCO2 and CPAP. Added: "start low and titrate pressure" to note regarding use of CPAP in the ?COPD patient. Change: Epinephrine 0.3mg 1:1000 IM is BHPO if known cardiac history or history of hypertension, BP >150, age >40 years and no definite history of asthma.
S-137 Sexual Assault	No changes
S-138 Shock	BLS: Deleted: Shock position ALS: Added: Shock: (?Septic). If history suggestive of infection and two or more of the following are present suspect sepsis and report: • Temperature >100.4 or <96.0 • HR >90 (except for patients on beta-blockers) • RR >20 500ml fluid bolus SO, MR to maintain BP >90
S-139 Trauma	BLS: Added: Keep warm

S-139 Trauma (continued)	ALS: Changed: "BP <90" to "if MTV IV/IO enroute Changed: "BP goal in the trauma patient – "500ml fluid bolus to maintain BP 80" (changed from BP >90). BP goal is not >80 but a target of 80.
S-140 Triage, Multiple Patient Incident	No changes
S-141 Pain Management	ALS: Change: Morphine administration in"2-4mg increments" deleted. Now reads, "2-10mg IV" Added: Ondansetron (Zofran) for nausea/vomiting with MS administration.
S-142 Psychiatric/Behavioral Emergencies	ALS: <u>Deleted:</u> 10 minutes between first and second dose of Versed for severe agitation.
	Pediatric Protocols:
ALL	O2 Saturation prn moved from ALS to BLS
P-160 Pediatric Airway Obstruction	BLS: Added: 5 back blows and chest thrusts for infants <1 year. MR prn. Added: Note referencing S-167 (If suspected epiglottitis: Place patient in sitting position. Do not visualize the oropharynx STAT transport. Added note: Treat as per Respiratory Distress Protocol S-167.

P-160 Pediatric Airway Obstruction (continued)	Change: "For inadequate air exchange: airway maneuvers (AHA). Abdominal thrusts. Use chest thrusts in the obese or pregnant patient." Replaces statement that maneuvers done only if complete airway obstruction.
S-161 Pediatric Altered Neurological Function	BLS: Change: Value changed from 75mg/dL to 60mg/dL. "Hypoglycemia (suspected) or patient's glucometer results read <60mg/dL." (Infant and neonate values unchanged.) ALS: Change: Treatment of hypoglycemia value changed from 75mg/dL to 60mg/dL. (Infant and neonate values unchanged.) Deleted: 10 minutes between first and second dose of Versed in seizure. Added: clarification note regarding seizure time: greater than 5 minutes "includes seizure time prior to arrival of prehospital provider". Added note: Versed not required for simple febrile seizure.
S- 162 Pediatric Allergic Reaction	ALS: Reformatted. Treatment divided by "Mild" "Acute" "Anaphylaxis". Added: Atrovent to first dose of Albuterol in Acute and Anaphylaxis.
S-163: Pediatric Dysrhythmias	BLS: Deleted: Age restriction on AED. Added: "Begin compressions, after first 30 compressions give first ventilations." ALS: Deleted: "sinus pause" under SVT, changed to "If no sustained rhythm change" after Adenosine MR.

S-164 Pediatric Envenomation Injuries	BLS: Change: Jellyfish sting changed from "rinse with alcohol" to "liberally rinse with salt water or alcohol or vinegar, if available, for at least 30 seconds." Added: Consider heat as tolerated (not to exceed 110 degrees). Use warm water if available, not to exceed 110 degrees.
S-165 Pediatric Poisoning/Overdose	ALS: Added: to Charcoal administration, "if ingestion within 60 minutes and recommended by Poison Center."
S-166 Pediatric Newborn Deliveries	BLS Change: statement regarding suctioning, "suction baby's airway if excessive secretions causing increased work of breathing, first mouth, then nose, suction after fully delivered." Added: wait 60 seconds after delivery prior to clamping and cutting cord. Change: regarding premature or low birth weight infants: "after delivery" added to statement regarding removing infant from amniotic sac. Change: Criteria for initiation of CPR changed to <20 weeks. (eyelids fused & weight removed from criteria).
S-167 Pediatric Respiratory Distress	BLS: Added: "May assist patient to self medicate own prescribed MDI ONE TIME ONLY. Base Hospital contact required prior to any repeat dose." ALS: Added: note regarding "avoid Albuterol in Croup". Added: "at rest" to nebulized epinephrine treatment - Respiratory Distress with Stridor at rest.

S-168 Pediatric Shock	BLS: Added: "Keep Warm"
S-169 Pediatric Trauma	BLS: Added: "neuro deficit/blunt trauma" to spinal stabilization. ALS: Added: "If MTV IV/IO en route"
S-170 Pediatric Burns	O2 Saturation prn moved from ALS to BLS
S-172 ALTE	Change: under the definition, "characterized by some combination of:" changed to "characterized by one or more of the following."
	ALS Skills (P-104):
P-104 ALS Skills List	ALS Skills (P-104):
	Added: pneumonia or drowning added to indications. Added: to comment section: "Patients with a GCS of <9 are unconscious and unlikely to comply. Non-verbal patients with poor head/neck tone may be too obtunded for CPAP. BVM assisted ventilation is the appropriate alternative."

12-Lead EKG (continued)	Added: "Repeat the 12-lead EKG only if the original EKG interpretation is NOT ***ACUTE MI*** and patient's condition worsens. Do not delay transport to repeat."
Esophageal Detection Device – aspiration based	Added: Laryngeal/Tracheal (King) airway to contraindications. Added: to comments – Optional
External Cardiac Pacemaer	<u>Changed:</u> "Yes" to Standing Order column. <u>Added:</u> "BP <90" to indications for unstable wide complex bradycardia.
Glucose Monitoring	Added: to comments "Repeat BS must be done if patient left on scene and initial was abnormal. (AMA/Release)."
Indwelling Devices Dialysis Catheter Assess Shunt/Graft-AV Assess	Added: if needed for "immediate" definitive therapy ONLY "and no other medication delivery route available."
Injection: SC	Deleted: skill removed from all protocols.
Intubation- ET/Stomal	Change: Apply c-collar to all intubated patients changed to "If intubated patient is to be moved apply c-collar prior to moving."
Intubation: Perilaryngeal airway adjunct (PAA)	Changed: Re-formatted - ETAD and LT airway combined under PAA
Nasogastric/orogastric tube	Added: to comments "If NG/OG tube needed in a patient with a King Airway, insertion should be via the suction port, if available."

Needle Thoracostomy	 <u>Change:</u> Preferred site is 2nd/3rd ICS in mid-clavicular line on the involved side. <u>Changed:</u> "Yes" to Standing Order column.
Spinal stabilization	Added: "If no neuro deficit" added to "Optional if" Added: "Optional if" criteria applies to patients <65 years of age. Added: "No language barrier" added to list of "AND all of the following are present and documented:"